

PRE-HEALTH CONCENTRATION, NEUROSCIENCE (BS)

Note: The first term for admission into this program is Winter 2024.

The concentration in Pre-Health accommodates the growing number of majors interested in pursuing professional health programs. Similar to such concentrations in other departments such as Biology and Psychology, the curriculum allows students to focus their curriculum in a way that ensures that the required courses for admission into professional programs in health are ones that are incorporated into their major requirements. This concentration will also provide a foundation for the creation of future combined programs with our colleagues in speech language pathology and occupational therapy.

Course	Title	Quarter Hours
Pick at least one of the following courses:		4
NEU 339	CELLULAR NEUROBIOLOGY	
or BIO 339	CELLULAR NEUROBIOLOGY	
NEU 350	SENSORY NEUROSCIENCE	
NEU 351	NEUROSCIENCE OF MOVEMENT	
BIO 342	COGNITIVE NEUROSCIENCE	
or PSY 379	COGNITIVE NEUROSCIENCE	
Pick at least one of the following courses:		4
NEU 256	INTRODUCTION TO COMPUTATIONAL NEUROSCIENCE	
NEU 310	SEMINAR IN NEUROPSYCHOPHARMACOLOGY	
NEU 360	CONVERSATIONS WITH NEUROSCIENTISTS	
NEU 380	SPECIAL TOPIC IN NEUROSCIENCE	
NEU 399	INDEPENDENT STUDY IN NEUROSCIENCE	
Pick 10 courses from below (based on the requirements of your specific professional health program):		40
CHE 230 & CHE 231	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY LABORATORY I	
CHE 232 & CHE 233	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY LABORATORY II	
CHE 234 & CHE 235	ORGANIC CHEMISTRY III and ORGANIC CHEMISTRY LABORATORY III	
CHE 340 & CHE 341	BIOCHEMISTRY I and EXPERIMENTAL BIOCHEMISTRY I	
PHY 150 or PHY 170	GENERAL PHYSICS I UNIVERSITY PHYSICS I	
PHY 151 or PHY 171	GENERAL PHYSICS II UNIVERSITY PHYSICS II	
PHY 152 or PHY 172	GENERAL PHYSICS III UNIVERSITY PHYSICS III	
MAT 150	CALCULUS I	

PSY 303	HUMAN DEVELOPMENT
BIO 201	HUMAN ANATOMY
BIO 308 or HLTH 301	HUMAN PHYSIOLOGY INTEGRATED HUMAN ANATOMY AND PHYSIOLOGY-A
BIO 210	MICROBIOLOGY
BIO 250	CELL BIOLOGY
BIO 260	GENETICS
BIO 330	DEVELOPMENTAL BIOLOGY
BIO 370	IMMUNOBIOLOGY
BIO 375 or HLTH 375	INTRODUCTION TO PHARMACOLOGY INTRODUCTION TO PHARMACOLOGY
BIO 386	ENDOCRINOLOGY
HLTH 301 or BIO 308	INTEGRATED HUMAN ANATOMY AND PHYSIOLOGY-A HUMAN PHYSIOLOGY
HLTH 302	INTEGRATED HUMAN ANATOMY AND PHYSIOLOGY-B

For students interested in applying to professional health programs that require Anatomy and Physiology, we recommend choosing from the following combinations:

Biology: BIO 201 & BIO 308

Health Sciences: HLTH 301 & HLTH 302

It is strongly encouraged that students in this concentration meet regularly with Pre-Health Advising to ensure they are choosing the appropriate courses to meet the requirements of the professional health program they intend to apply to.